

**ABSTRACT**

The present invention relates to a method of detection of a compound of interest that is present at low levels in a sample. In particular, the present invention relates to a method of detection of a compound of interest in solution by a nucleic acid-labelled binding construct, separation of the unbound nucleic acid-labelled binding construct, and the detection of the bound nucleic acid-labelled binding construct in the solution phase. The present invention is particularly adaptable to be used in conjunction with a nucleic acid amplification reaction for detecting the presence or absence of the nucleic acid portion of binding construct in a sample indicating the presence or absence of the compound of interest.